

Comments:

105-10-10240

Stream 105-10-24 drains steep terrain located on the narrow isthmus between Affleck Canal and Port Malmesbury.

The intertidal area provides excellent spawning habitat in the upper section. The mid and lower areas are primarily mud and gravel and are not suitable for spawning. Photo #1 depicts the wide shallow stream channel and small gravels found in the upper intertidal area.

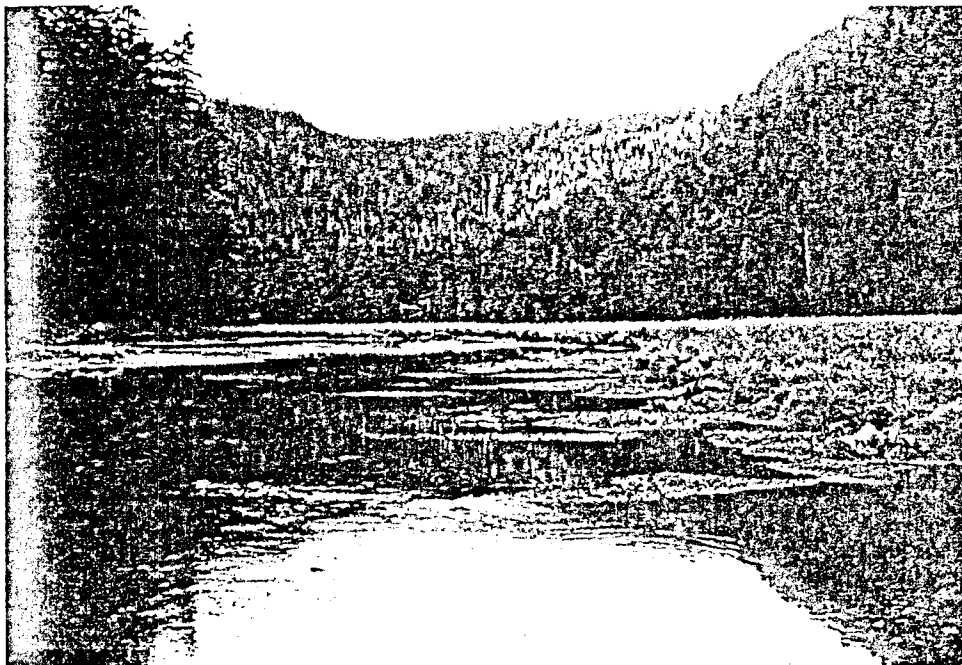


Photo #1: Upper intertidal area of Stream 105-10-24

Reach #1 is characterized by numerous channels, some of which were dry during the survey. The stream banks are undercut and unstable. Gravel scouring is common. Numerous large windfalls provide pools and help stabilize the gravels. The stream appears to fluxuate greatly in discharge.

Photo #2 depicts the stream .4 miles upstream.



Photo #2: Stream 105-10-24 .4 miles upstream.

Tributary 01 drains very steep terrain and enters the mainstream in a large alluvial area. Numerous channels are present in this area. Coho fry were present in the lower section of Tributary 01.

Reach #2 (main stream channel) is very similar to Reach #1 except the bottom substrates are primarily rubbles and the stream gradient is higher. The stream has several channels which were completely dry above the confluence of Tributary 02 and the main channel. A few pink and coho salmon bones were observed indicating water flow is sufficient at times to support adult spawners.

Tributary 02 drains a lake system and drops almost vertically to the valley bottom floor. The lower few hundred yards contain limited fisheries habitat. The area is scoured and bottom substrates are primarily cobbles. The upper watershed of both tributaries was not surveyed.

Bear Harbor is easily the largest pink salmon producer on the south end of Kuiu Island and supports a very substantial commercial fishery. It is felt that production of pink salmon could be improved by a gravel cleaning project in the mid-upper intertidal area. High levels of fine silt material are present in this area and removal would certainly improve egg and alevin survival.

105-10-10240

Mar Port Alex. B-1

ADF&G Anadromous Stream No. 105-10-24

Lat 56° 15' 39"

Long 134° 01' 51"

Water Source: One small lake, surface runoff, ground water noted.

Spawning areas: Two pools in the mid and lower ITZ as well as the estuary utilized.

Shellfish potential: Commercial crab pots in estuary. Few clams and mussels observed in ITZ.

Land use at present: None

History of land use: Debris removal in lower few hundred yards (ADF&G). Cat logging in area around estuary (1948).

Anchorage: Good anchorage in Bear Harbor.

Sport fish potential: Light sport use for coho and pink salmon in estuary.

Excellent potential.

Trails and survey routes: Heavy bear use - many trails, although brushy in places due to stream channel instability.

Spawning escapement data:

ADF&G spawning escapement data:

1964	96000 Pink		
1965	21000 Pink		
1966	22100 Pink	700 Chum	
1967	18000 Pink	500 Chum	
1968	30000 Pink		
1969	11900 Pink	50 Chum	
1970	20000 Pink	325 Chum	
1971	47000 Pink	700 Chum	
1972	20000 Pink		2 Sockeye
1973	24500 Pink	113 Chum	
1974	25900 Pink	130 Chum	
1975	34000 Pink	50 Chum	110 Coho
1976	28100 Pink	1000 Chum	
1977	18603 Pink		

Escapement timing: Mid-August - early September

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